

M	A	R	G	R	R	10	20	30	40	Majority																														
M	-	-	A	D	D	Q	G	R	G	R	R	P	L	N	E	D	S	S	T	S	R	G	-	-	-	-	S	G	D	G	P	R	piwi.PRO							
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M	-	-	A	S	G	S	G	R	G	R	G	R	G	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ciwi2.PRO							
M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ciwi1.PRO							
M	N	L	P	P	N	P	V	I	A	R	G	R	G	R	G	R	K	P	N	N	V	E	A	N	R	G	F	A	P	S	L	G	Q	K	S	D	P	S	H	aubergine.PRO
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M	A	R	G	R	R	50	60	70	80	Majority																															
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3	-	-	-	S	G	S	N	S	G	G	K	D	Q	K	Y	L	G	T	I	Q	P	D	L	F	I	-	-	-	R	Q	Q	G	Q	S	K	-	-	-	-	ciwi2.PRO	
1	S	E	G	N	Q	A	S	G	G	N	G	G	G	D	A	Q	V	G	P	S	I	E	K	S	S	L	S	A	V	Q	M	H	K	S	E	G	D	P	R	aubergine.PRO	
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M	A	R	G	R	R	90	100	110	120	Majority																															
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3	T	G	S	S	-	G	Q	P	-	-	Q	K	C	F	A	N	F	I	P	I	E	M	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	hiwi.PRO	
1	G	S	V	R	-	G	R	R	L	I	T	D	-	L	V	Y	S	R	P	P	G	M	T	S	K	K	G	V	V	G	T	H	I	T	V	Q	A	N	Y	F	aubergine.PRO
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M	A	R	G	R	R	130	140	150	160	Majority																													
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FIG 1A

FIG. 1A



FIG. 1C



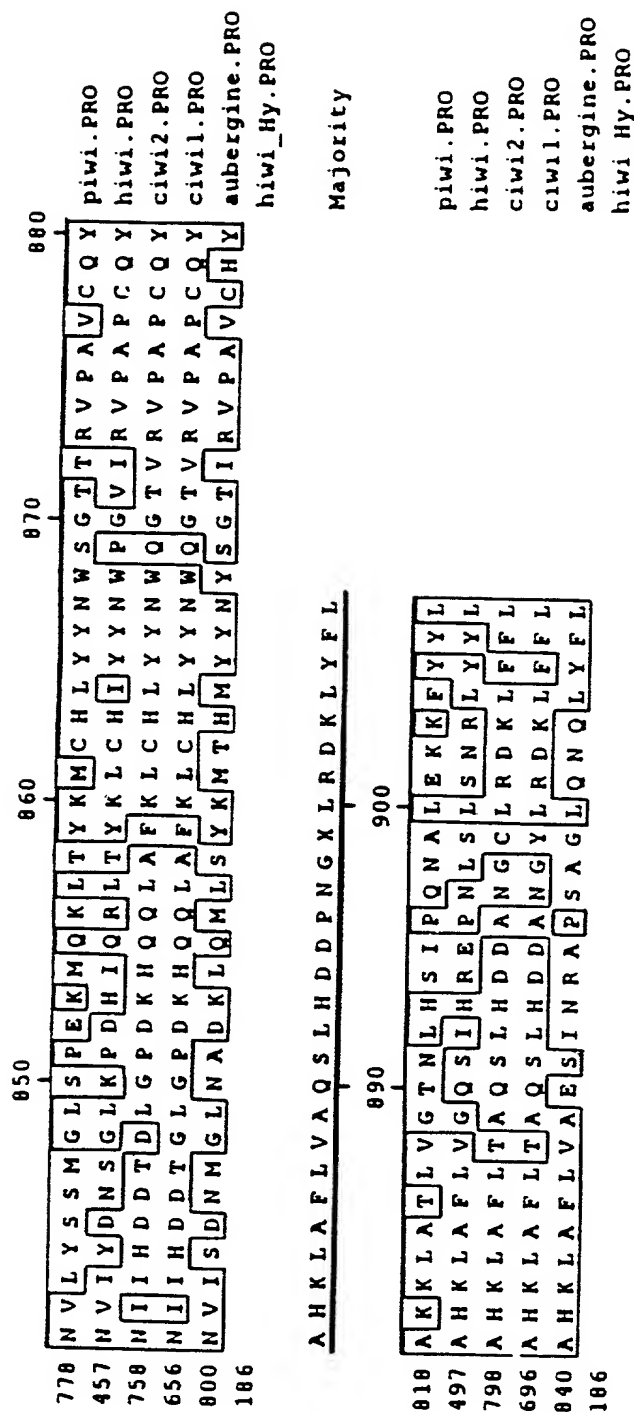
FIG. 1E

563	A	V	P	T	Q	V	V	T	L	K	T	-	-	-	-	T	K	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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FIG. 1F

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353	E	Y	M	P	S	R	I	I	V	Y	R	D	G	V	G	D	G	Q	L	K	T	L	V	N	Y	E	V	P	-	-	-	-	Q	F	L	D	C	L	hiw1.PRO			
643	Q	T	L	P	S	R	I	L	Y	R	D	G	A	G	D	G	Q	I	P	Y	I	K	N	T	E	V	K	L	V	R	D	A	C	D	A	V	T	D	K	ciw12.PRO		
541	K	T	L	P	S	R	I	L	Y	R	D	G	A	G	D	G	Q	I	P	Y	I	K	N	T	E	V	K	L	V	R	D	A	C	D	A	V	T	D	K	ciw11.PRO		
696	R	S	L	P	E	R	I	L	F	F	R	D	G	V	G	D	G	Q	L	Y	Q	V	N	S	E	V	N	-	-	-	-	-	-	-	-	T	L	K	D	R	L	aubergine.PRO
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387	K	-	-	-	S	I	G	R	G	Y	N	P	-	R	L	T	V	I	V	V	K	K	R	V	N	T	R	F	F	A	Q	S	G	R	L	Q	-	-	-	-	hiw1.PRO	
683	A	A	E	L	S	N	K	V	Q	E	K	I	-	K	L	A	F	I	I	V	T	K	R	V	N	M	R	I	L	K	Q	G	-	-	-	-	S	S	L	D	ciw12.PRO	
581	A	A	E	L	S	N	K	V	Q	E	K	I	-	K	L	A	F	I	I	V	T	K	R	V	N	M	R	I	L	K	Q	G	-	-	-	-	S	S	S	K	ciw11.PRO	
730	D	E	I	Y	K	S	A	G	K	Q	E	G	C	R	M	T	E	I	I	V	S	K	R	I	N	S	R	Y	F	T	G	H	-	-	-	-	R	-	-	-	aubergine.PRO	
156	A	-	-	-	E	S	S	S	N	T	S	S	-	R	L	S	V	I	V	V	R	K	K	C	M	P	R	F	F	T	-	-	-	-	-	-	-	-	-	-	hiw1_Hy.PRO	
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420	-	-	-	N	P	L	P	G	T	V	I	D	V	E	V	T	R	P	E	W	Y	D	F	F	I	V	S	Q	A	V	R	S	G	S	V	S	P	T	H	Y	hiw1.PRO	
718	N	A	I	N	P	Q	P	G	T	V	V	D	T	T	V	T	R	P	E	R	M	D	F	Y	L	V	P	Q	F	V	N	Q	G	T	V	T	P	V	S	Y	ciw12.PRO	
616	S	A	I	N	P	Q	P	G	T	V	V	D	T	T	V	T	R	P	E	R	M	D	F	Y	L	V	P	Q	F	V	N	Q	G	T	V	T	P	V	S	Y	ciw11.PRO	
763	-	-	-	N	P	V	P	G	T	V	V	D	D	V	I	T	L	P	E	R	Y	D	F	F	L	V	S	Q	A	V	R	I	G	T	V	S	P	T	S	Y	aubergine.PRO	
182	-	-	-	-	-	-	-	-	-	-	-	-	-	E	M	N	R	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	hiw1_Hy PRO			
N V I H D D T G L G P D K H Q Q L A Y K L C H L Y Y N W S G T V R V P A P C Q Y Majority																																										

FIG. 1G



Decoration 'Decoration #1': Box residues that match the Consensus exactly.

Decoration 'Decoration #2': Shade (with black at 10% fill) residues that match hiwi_Hy.PRO exactly.

FIG. 1H

SEQUENCE ALIGNMENT

SEQ ID NO:2	1	SIKKYLS	CPVPSQCV	ARTLNKQGMMSI	ATKIAMQMTCKLGGELWAVEI	PLKSLMVV	60	
SEQ ID NO:9	207	SIKKYLS	SDCPVPSQCV	ARTLNKQGMMSI	ATKIAMQMTCKLGGELWAVEI	PLKSLMVV	266	
SEQ ID NO:2	61	GIDVCKDAL	SKDVMV	GCVASVNP	ITRWF	SRCILQRTMTDVADCLKV	FMTGALNKWYKY	120
SEQ ID NO:9	267	GIDVCKDAL	SKDVMV	GCVASVNP	ITRWF	SRCILQRTMTDVADCLKV	FMTGALNKWYKY	326
SEQ ID NO:2	121	NHDLPARII	IVYRAGV	GDGQLKTLIE	YEV	PQLLSVAESSNTSSRLSV	IIVVRKKCMRFF	180
SEQ ID NO:9	327	NHDLPARII	IVYRAGV	GDGQLKTLIE	YEV	PQLLSVAESSNTSSRLSV	IIVVRKKCMRFF	386
SEQ ID NO:2	181	TEMNRT						186
SEQ ID NO:9	387	TEMNRT						392

Score = 942 (336.7 bits), Expect = 3.0e-100, P = 3.0e-100
Identities = 183/186 (98%), Positives = 183/186 (98%)

FIG. 2